PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference BP107522/MB	**FOR FURTHER ACTION** See Form PCT/IPEA/416	
International application No. PCT/FI 2003/000807	International filing date *(day/month/year)* 31.10.2003	Priority date *(day/month/year)* 01.11.2002
International Patent Classification (IPC) or national classification and IPC H04M 1/247, G07F 7/08, H04L 29/06		
Applicant Meridea Financial Software OY et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 6 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
   a. ☒ *(sent to the applicant and to the International Bureau)* a total of 3 sheets, as follows:
      - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
      - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

   b. ☐ *(sent to the International Bureau only)* a total of (indicate type and number of electronic carrier(s))
      _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items:
   - ☒ Box No. I Basis of the report
   - ☐ Box No. II Priority
   - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
   - ☐ Box No. IV Lack of unity of invention
   - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
   - ☐ Box No. VI Certain documents cited
   - ☐ Box No. VII Certain defects in the international application
   - ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 10.05.2004	Date of completion of this report 18.02.2005
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Behroz Moradi /OGU Telephone No. +46 8 782 25 00

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FI 2003/000807

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

☐ the international application as originally filed/furnished

☒ the description:

pages 1-21 as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____

☒ the claims:

pages 23-26 as originally filed/furnished
pages* _____ as amended (together with any statement) under Article 19
pages* 22, 27-28 received by this Authority on 27.09.2004
pages* _____ received by this Authority on _____

☒ the drawings:

pages 1-9 as originally filed/furnished
pages* _____ received by this Authority on _____
pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing *(specify)*: _____
☐ any table(s) related to the sequence listing *(specify)*: _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing *(specify)*: _____
☐ any table(s) related to the sequence listing *(specify)*: _____

* *If item 4 applies, some or all of those sheets may be marked "superseded."*

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FI 2003/000807

Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-33	YES
	Claims		NO
Inventive step (IS)	Claims	1-33	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-33	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: WO 02067602 A1
D2: WO 0152508 A1
D3: US 5832074 A
D4: DE 10117654 A1
D5: EP 1233599 A2
D6: WO 9842173 A2

D1 describes a method for providing a user with a service from a server coupled to a communications network. The method provides an automatic interactive text-based user interface which comprises maintaining a record (= store) of messages transmitted and received by a messaging service from a user of a mobile communications network, and formulating (=defining) and transmitting new messages automatically in accordance with an index set (= certain command) held in an associated database, and in accordance with messages received from the user in response to specific messages transmitted previously over the network. The method by maintaining a session history at the server, and using the "reply" message feature, the assignment of an index character or short string of characters to each response option requires only the index character to be returned to the computer server for the **associated command** to be executed, (claims 1 and 8).

D2 provide a wireless communication device (101) with a keypad (134) to allow a user to enter data, such as alphanumeric sequences, timing and delay information, associated with a destination. A data storage (118) communicatively coupled to the keypad (134) stores the information entered by the user.

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of: Box V.

A processor (112, 114) is communicatively coupled to the keypad (134) and to the data storage (118). In operation, the user uses the keypad (134) to enter information for storage in the data storage (118). When a call is to be placed to the destination, the user again uses the keypad (134) to select information stored in a particular addressable memory location (120) within the data storage (118). The processor (112, 114) is responsive to a **command** from the user to retrieve the selected information and to transmit the retrieved information from the wireless communication device (101) to the destination, (claims 1 - 16; abstract).

D3 telephone relates to an intelligent telephone system, operating methods related to the system are also disclosed. The intelligent telephone is capable of programming operating procedures as a shortcut for re-operating in the future. Furthermore, achieve the purpose of conveniently operating some complicated operating processes for a user, and being capable of automatically performing in a preset time limit. The intelligent telephone system includes storage means, a ROM (Read Only Memory), an LCD (Liquid Crystal Display), a telephone interface, a CPU (Central Processing Unit), and a user inputting interface. The user interface is used for receiving audio information and commands for controlling operations to shortcuts. In software structure, the intelligent system includes a system control module, a shortcut functional module, and lots of software modules. The system control module gives control rights and relative messages to the shortcut functional module. The shortcut functional module then controls actions of the software modules for the purpose of completely handling shortcut operations, (claims 1-7).

D4 describes a method for controlling mobile phone terminals is characterized by the use of macro-commands which are individually drawn up, stored and carried out by the user of the mobile phone. The macro-commands are specifically stored, processed and/or carried out in the electronics of the mobile-phone, (Abstract).

D5 relates to a shortcut system for use in a mobile electronic device having several types of shortcuts allows a user to execute shortcuts of different types using a single mechanism.

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of: Box V.

The shortcut system includes a display, an operating system, a shortcut data store, and one or more applications, including a shortcut application used to create shortcuts and **edit** shortcut information contained in the shortcut data store. The shortcut data store contains target information associated with applications of various types, indexed by a shortcut tag. When a new application is installed in the mobile electronic device, the user can add shortcut information associated with the new application to the shortcut data store. The target information can **define** content associated with an application. When a shortcut to content is executed, the associated application is launched and **begins** operating on the content data. Further, the shortcuts can be created with different types of tags, (claims 1- 33).

D6 Relates to utilisation of data communications facilities offered by digital cellular radio system and to use of short message type data communications to provide banking services to users of cellular radio system terminals, (claims 1 - 5).

It is well known to have a method and a system for providing a user with a service from a server coupled to a communications network and as a response to receiving command commencing use of the service through the communication network.

The invention according to claims 1, 24 and 29 is not novel with respect to D1 or D2.

Dependent claims 2-23, 25-28 and 30-33 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, involve an inventive step, since said features fall within the scope or the customary practice followed by persons skilled in the art. A person skilled in the art would try to combine the principle parts of 1 or D2 with the closest prior art D3 or D5 to obtain the features of claims 2-23, 25-28 and 30-33 and have a reasonable expectation of success. The solution proposed in claims 2-23, 25-28 and 30-33 of the present application cannot be considered as involving an inventive step, consequently, the invention according to the claims 2-23, 25-28 and 30-33 lacks an inventive step.

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of: Box V.

The features of amended independent claims 1, 24 and 29 have already been employed for the same purpose and achieve the same technical effect, see D1 and D6. Therefore, these claims are not new in view of the previously known art. D1 describes a method of providing an automatic interactive user interface which comprises maintaining a record of messages transmitted and received by a messaging service from a user of a mobile communications network, and formulating and transmitting new messages **automatically** in accordance with an index set held in an associated database, and in accordance with messages received from the user in response to specific messages transmitted previously over said network, (claim 1).

Therefore, the invention according to claims 1-33 is not novel and lacks an inventive step.

Claims

1. A method for providing a user with a service from a server (105, 1206) coupled to a communications network (103, 104, 1201, 1203), **characterized** in that it comprises the steps of:

- storing (427) a definition (302) of automatically using the service into a mobile terminal (102, 1203) of the user,
- reprogramming said mobile terminal (102, 1203) to associate a certain input command given through a user interface of said mobile terminal with starting the use of the service, and
- as a response to receiving (702, 801, 901, 1001) said certain input command after the step of reprogramming said mobile terminal has been accomplished, commencing use of the service according to said definition;

wherein the use of the service comprises communicating information (112, 113, 114, 121, 122, 123) between said mobile terminal (102, 1203) and the server (105, 1206) through the communications network (103, 104, 1201, 1203).

2. A method according to claim 1, **characterized** in that before the step of storing (427) a definition (302) of automatically using the service, it comprises a step of composing (301) a customized definition (302) of the service adapted to the needs of the particular user.

3. A method according to claim 2, **characterized** in that said step of composing (301) a customized definition (302) of the service involves tracking certain operations through which the user uses the service manually and converting observations made during such tracking into a definition of automatically using the service.

4. A method according to claim 3, **characterized** in that it comprises:

- observing the context in which the user made a certain physical operation,
- taking said context into account in deducing what was the function to be executed as a response to said certain physical operation and
- storing into said customized definition of the service a command to execute said function instead of just storing a command that would directly correspond to repeating said certain physical operation.

- reprogrammable user interface means (203, 204, 211) for reprogramming said mobile terminal to associate a certain input command given through a user interface (203) of said mobile terminal (102, 1203) with starting the use of the service,
- processor means (201) adapted to respond to receiving said certain input command after reprogramming said mobile terminal has been accomplished by commencing use of the service according to said definition, and
- communication means (205, 214) for communicating information between said mobile terminal (102, 1203) and the server (105, 1206) through the communications network (103, 104, 1201, 1202).

25. A mobile terminal according to claim 24, **characterized** in that it comprises tracking means (201) adapted to track certain operations through which the user uses the service manually and to convert observations made during such tracking into a definition of automatically using the service.

26. A mobile terminal according to claim 24, **characterized** in that it comprises parser means (213) adapted to convert a definition (302) of service from the form of device-independent execution language script into the form of processor-executable instructions.

27. A mobile terminal according to claim 24, **characterized** in that it comprises means for accepting and storing a definition (302) of service in a form of a device-dependent command series previously parsed from the form of device-independent execution language script.

28. A mobile terminal according to claim 24, **characterized** in that said reprogrammable user interface means (203, 204, 211) are adapted to be reprogrammed to associate the press of a certain pressable key of said mobile terminal with starting the use of the service.

29. A system for providing a user with a service, comprising:

- a communications network (103, 104, 1201, 1202),
- a service provider's server (1206) coupled to the communications network, and
- a user's mobile terminal (1203) coupled to the communications network;

characterized in that it comprises:
- service defining means (1203, 1204, 205) for creating a customized definition of automatically using the service in a way adapted to the needs of the particular user,
- means for storing a created customized definition of automatically using the service into the mobile terminal (1203) of the user,

- means for reprogramming said mobile terminal (1203) to associate a certain input command given through a user interface of said mobile terminal with starting the use of the service, and
- at the mobile terminal (1203), means for responding to receiving said certain input command after said reprogramming has been accomplished by commencing use of the service according to said definition.

30. A system according to claim 29, **characterized** in that said service defining means are located at the user's mobile terminal (1203).

31. A system according to claim 29, **characterized** in that said service defining means are located at a service definition server (1205) coupled to the communications network (1201, 1202).

32. A system according to claim 31, **characterized** in that the service definition server (1205) is adapted to digitally authenticate created customized definitions of automatically using services, and the user's mobile terminal (1203) is adapted to only accept such digitally authenticated definitions of automatically using services for storing.

33. A system according to claim 31, **characterized** in that the user's mobile terminal (1203) is further adapted to indicate the digital authentication when communicating to the service provider's server (1206) during the automatical use of a service, and the service provider's server (1206) is adapted to only accept communication from mobile terminals (1203) that automatically use a service if such communication includes such indicated digital authentication.